



Angles on a Straight Line

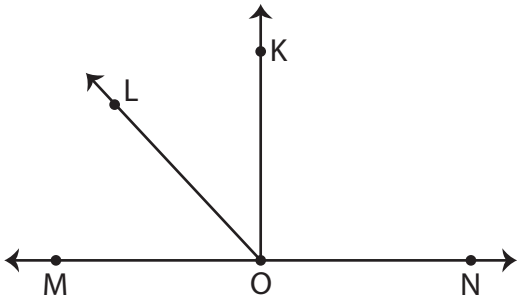
Name _____

Score _____

PA:05

Find the value of x.

1)

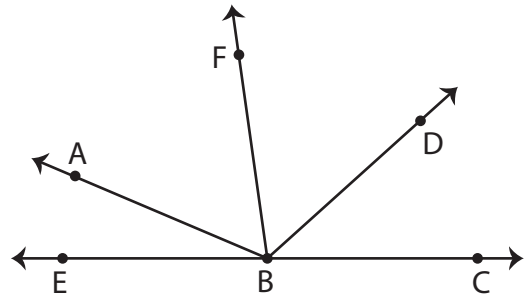


$$m\angle KON = 10x^\circ \quad m\angle KOL = 43^\circ$$

$$m\angle MOL = 47^\circ$$

$$x = \text{ () }$$

2)

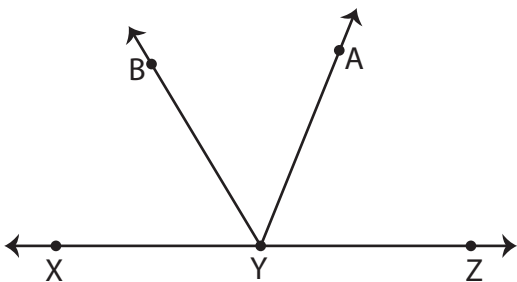


$$m\angle FBA = 59^\circ \quad m\angle FBD = 8x^\circ$$

$$m\angle ABE = 23^\circ \quad m\angle DBC = 42^\circ$$

$$x = \text{ () }$$

3)

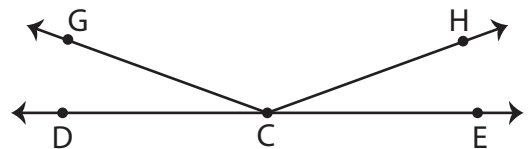


$$m\angle BYA = 53^\circ \quad m\angle AYZ = 68^\circ$$

$$m\angle XYB = (2x + 9)^\circ$$

$$x = \text{ () }$$

4)

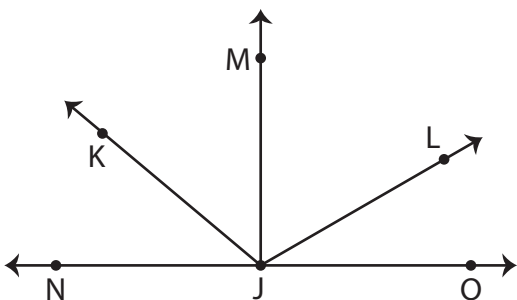


$$m\angle DCG = 20^\circ \quad m\angle GCH = (x - 5)^\circ$$

$$m\angle HCE = 20^\circ$$

$$x = \text{ () }$$

5)

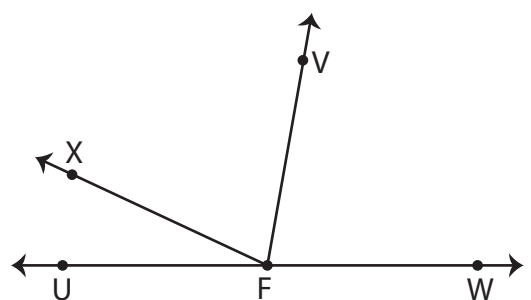


$$m\angle KJM = 50^\circ \quad m\angle LJO = 30^\circ$$

$$m\angle MJL = (11x - 6)^\circ \quad m\angle KJN = 40^\circ$$

$$x = \text{ () }$$

6)



$$m\angle XFV = 74^\circ \quad m\angle XFU = 5x^\circ$$

$$m\angle VFW = 81^\circ$$

$$x = \text{ () }$$



Angles on a Straight Line

Name _____

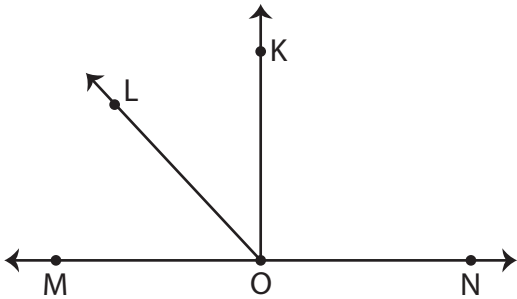
Score _____

Answer key

PA:05

Find the value of x.

1)



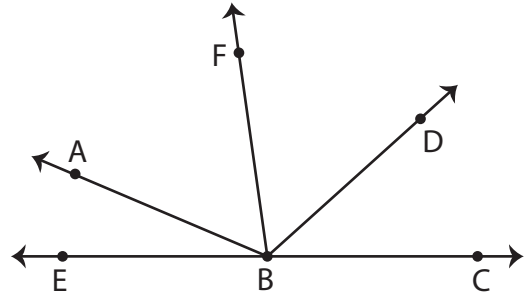
$$m\angle KON = 10x^\circ \quad m\angle KOL = 43^\circ$$

$$m\angle MOL = 47^\circ$$

$$x =$$

9

2)



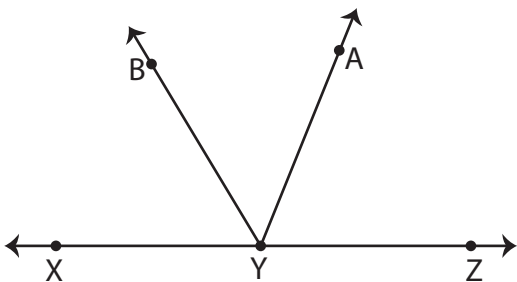
$$m\angle FBA = 59^\circ \quad m\angle FBD = 8x^\circ$$

$$m\angle ABE = 23^\circ \quad m\angle DBC = 42^\circ$$

$$x =$$

7

3)



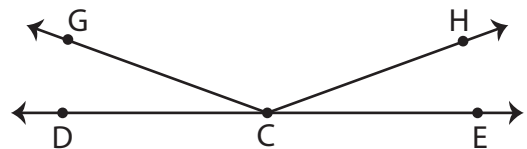
$$m\angle BYA = 53^\circ \quad m\angle AYZ = 68^\circ$$

$$m\angle XYB = (2x + 9)^\circ$$

$$x =$$

25

4)



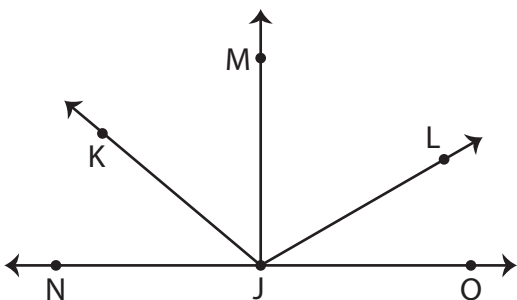
$$m\angle DCG = 20^\circ \quad m\angle GCH = (x - 5)^\circ$$

$$m\angle HCE = 20^\circ$$

$$x =$$

145

5)



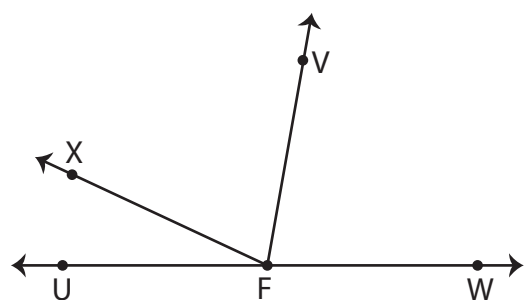
$$m\angle KJM = 50^\circ \quad m\angle LJO = 30^\circ$$

$$m\angle MJL = (11x - 6)^\circ \quad m\angle KJN = 40^\circ$$

$$x =$$

6

6)



$$m\angle XFV = 74^\circ \quad m\angle XFU = 5x^\circ$$

$$m\angle VFW = 81^\circ$$

$$x =$$

5